



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/477,107	12/31/1999	CHRISTOPHER L. HAMLIN	K35A0576	8721
26332 7:	590 06/01/2004		EXAMI	NER
WESTERN DIGITAL CORP.			DADA, BEEMNET W	
20511 LAKE FOREST DRIVE C205 - INTELLECTUAL PROPERTY DEPARTMENT LAKE FOREST, CA 92630			ART UNIT	PAPER NUMBER
			2135	9
			DATE MAILED: 06/01/2004	. 1

Please find below and/or attached an Office communication concerning this application or proceeding.

· · ·		X 4
	Application N	MCG
	Application No.	Applicant(s)
	09/477,107	HAMLIN, CHRISTOPHER L.
Office Action Summary	Examiner	Art Unit
	Beemnet W Dada	2135
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a roon. a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	28 <u>April 2004</u> .	
<u> </u>	This action is non-final.	
3) Since this application is in condition for all	lowance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application	ation	
4a) Of the above claim(s) is/are with		
5) Claim(s) is/are allowed.	narawit irom contractation.	
6)⊠ Claim(s) <u>1-14</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	and/or election requirement.	
Augustianstian Damana		
Application Papers		
9) The specification is objected to by the Exa		
10) The drawing(s) filed on is/are: a)		
Applicant may not request that any objection to	***	
Replacement drawing sheet(s) including the co		
11) The oath or declaration is objected to by the	ie Examiner. Note the attached	Office Action of form F 10-132.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:	· ·	119(a)-(d) or (f).
1. Certified copies of the priority docu		
2. Certified copies of the priority documents		•
3. ☐ Copies of the certified copies of the	•	received in this National Stage
application from the International B	•	respired
* See the attached detailed Office action for	a list of the certified copies not	received.
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94)		Summary (PTO-413) s)/Mail Date

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date _

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other: __

Art Unit: 2135

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35 U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 3-8 and 10-14 are rejected under 35 U.S.C 103(a) as being unpatentable over Brown et al. (US Patent No. 5,892,826) in view of Lewis (US Patent No. 5,734,819).
- 3. The rejection is being applied for the same reason as set forth in the previous Office action, pages 2-5, mailed 04/01/04.
- 4. Claims 2 and 9 are rejected under 35 U.S.C 103(a) as being unpatentable over Brown et al. in view of Lewis and further in view of Le Rue (US Patent No. 5,694,469).
- 5. The rejection is being applied for the same reason as set forth in the previous Office action, pages 5-6, mailed 04/01/04.

Response to Arguments

6. Applicant's arguments filed 4/28/04 have been fully considered but they are not persuasive.

Art Unit: 2135

7. The applicants assert that the examiner rejected claims 1, 10-15, 17, 26-31 under 35 USC 103(a) as unpatentable over Brown et al (5,892,826) in view of Lewis (5,734,819).

The rejected claim numbers are incorrect. The examiner rejected claims 1, 3-8 and 10-14 under 35 U.S.C 103(a) as being unpatentable over Brown et al. (US Patent No. 5,892,826) in view of Lewis (US Patent No. 5,734,819).

8. With respect to claim 1, the applicant argues that combining Brown with Lewis will not teach all of the claim limitations. The applicant further argues that the examiner concedes that Brown does not teach to authenticate a device providing plaintext data before enabling an encryption circuit. Further, Lewis does not disclose or suggest authenticating a device providing plaintext data to an encryption circuit. The examiner respectfully disagrees.

Applicant cannot show non-obviousness by attacking references individually where, as here the rejections are based on combination of references. (In re Keller, 208 USPq 871 (CCPA 1981)). Brown teaches an expanded mode of operation (i.e. address space divided in internal and external memory portions), partitioning the address space to allow certain input/output peripherals or memory devices to be accessed with clear text [See Brown, column 2, lines 30-42], implementing encryption based on the address at which the data is located (i.e. indirectly verifying whether a device is internal or external device) [See Brown, column 4, lines 16-17], and generating an address signal corresponding to different combinations of the address space and selectively performing encryption based on the signal [See Brown, column 3, lines 15-28]. Further, Lewis teaches method of authenticating a device using unique chip identifier [See Lewis, column 2, lines 21-34], which is the method of authentication disclosed in the applicants specification. Therefore, modification of the method of authentication taught by Lewis into the

Art Unit: 2135

method of indirect device verification for selective encryption taught by Brown teaches authenticating a device providing plaintext data to an encryption circuit.

The applicant further argues that there is no motivation taught by the relied upon prior art to make the modification and further, the motivation to improve security as suggested by the examiner comes only from applicant's own disclosure which cannot be used as prior art against the claims. The examiner respectfully disagrees.

It is not necessary that the references actually suggest expressly or in so many words the changes or improvements that applicant has made. The test for combining references is what the references as a whole would have suggested to one of ordinary skill in the art. (In re Sheckler, 168 USPQ 716 (CCPA 1971); In re McLaughlin 170 USPQ 209 (CCPA 1971); in re Young 159 USPQ 725 (CCPA 1968)). Brown suggests a motivation to secure against cryptanalysis attacks [see Brown, column 1, lines 36-58], by indirect method of device verification based on address location and flexible encryption as specified above. Furthermore, Lewis teaches motivation to implement device authentication using unique device identification to prevent data from executing on unlicensed computer [See Lewis, column 1, lines 14-31].

9. With respect to claims 2 and 9, the applicant argues that Le Rue does not disclose or suggest to authenticate a device providing plaintext data to an encryption circuit, or to authenticate the device receiving the encrypted data. The examiner respectfully disagrees.

Applicant cannot show non-obviousness by attacking references individually where, as here the rejections are based on combination of references. (In re Keller, 208 USPq 871 (CCPA 1981)). The combination of Brown in view of Lewis teaches to authenticate a device providing

Art Unit: 2135

plaintext data to an encryption circuit as specified above. Le Rue teaches, at column 4, lines 37-48, a method of verifying the source and destination devices before allowing process to continue. The modification of Le Rue within the combination of Brown and Lewis teaches device authentication of both the source device providing plaintext data to an encryption circuit and destination devices receiving the data.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W Dada whose telephone number is (703) 305-8895. The examiner can normally be reached on Monday - Friday (8:30 am - 6:00 pm).

Page 6

Application/Control Number: 09/477,107

Art Unit: 2135

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y Vu can be reached on (703) 305-4393. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Beemnet Dada

May 26, 2004

KIM VU

TENT EXAMINATION

.